WHAT IS CLAIMED IS:

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1. A glass forming alloy having a composition given by:

 $(Ni_{1-x} TM_x)_a ((Nb, Ta)_{1-y} ETM_y)_b (Sn_{1-z}AM_z)_{c,}$

where ETM is an early transition metal selected from the group of Ti, Zr, Hf, Cr, Mo, and W; TM is a transition metal selected from the group of Mn, Fe, Co, and Cu; and AM is an additive material selected from the group of B, Al, Si, and Sb;

where a is in the range of from 50 to 65, b in the range of 30 to 45, c is in the range of 2 to 10 in atomic percentages; and

where x is less than 0.2, y is less than 0.3, z is less than 0.5, and the sum of x, y and z is less than about 0.5.

2. The glass forming alloy described in claim 1 wherein a is in the range of from 55 to 62, b in the range of 33 to 40, and c is in the range of 2 to 8 in atomic percentages; and

where x is less than 0.1, y is less than 0.2, z is less than 0.3, and the sum of x, y and z is less than about 0.3.

- 3. The glass forming alloy described in claim 2 wherein ETM is an early transition metal selected from the group of Ti, Zr, and Ta; TM is a transition metal selected from the group of Fe, Co and Cu; and AM is an additive material selected from the group of B and Si.
- 4. The glass forming alloy described in claim 1 wherein the alloy has a Δ Tsc of more than 40 °C.
 - 5. The glass forming alloy described in claim 1 wherein the liquidus temperature of the alloy is 1160 °C or less.
- The glass forming alloy described in claim 1 wherein the alloy has a Vickers hardness greater than 940 Kg/mm².

7. The glass forming alloy described in claim 1 wherein the alloy has a yield strength of greater than 2 GPa.

- 8. The glass forming alloy described in claim 1 wherein the alloy has a yield strength of about 3 GPa or more.
 - 9. The glass forming alloy described in claim 1 wherein the alloy has a Young's modulus of greater than 160 GPa.
- 10 10. The glass forming alloy described in claim 1 wherein the alloy has a ratio of glass transition temperature to liquidus temperature of around 0.6 or more.
 - 11. The glass forming alloy described in claim 1 wherein the alloy is substantially amorphous.
 - 12. The glass forming alloy described in claim 1 wherein the alloy contains a ductile crystalline phase precipitate.

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- 13. The glass forming alloy described in claim 1 wherein the alloy is $20 \, Ni_{60}Nb_{37}Sn_3$.
 - 14. The glass forming alloy described in claim 1 wherein the alloy is Ni₅₅Fe₅Nb₃₅Sn₅.
- 25 15. The glass forming alloy described in claim 1 wherein the alloy is Ni₆₀Nb₃₅Sn₃B₂.
 - 16. The glass forming alloy described in claim 1 wherein the alloy is Ni₅₅Nb₃₁Sn₉Cu₅.
 - 17. The glass forming alloy described in claim 1 wherein the alloy is Ni₅₅Nb₂₈Sn₆Zr₃Co₅Ti₃.
 - 18. An article made of an amorphous alloy of basic composition given by: $(Ni_{1-x} TM_x)_a ((Nb, Ta)_{1-y} ETM_y)_b (Sn_{1-z}AM_z)_c,$

where ETM is an early transition metal selected from the group of Ti, Zr, Hf, Cr, Mo, and W; TM is a transition metal selected from the group of Mn, Fe, Co, and Cu; and AM is an additive material selected from the group of B, Al, Si, and Sb;

where a is in the range of from 50 to 65, b in the range of 30 to 45, c is in the range of 2 to 10 in atomic percentages;

where x is less than 0.2, y is less than 0.3, z is less than 0.5, and the sum of x, y and z is less than about 0.5.

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- 19. The article described in claim 18 wherein a is in the range of from 55 to 62, b in the range of 33 to 40, and c is in the range of 2 to 8 in atomic percentages; and
- where x is less than 0.1, y is less than 0.2, z is less than 0.3, and the sum of x, y and z is less than about 0.3.
 - 20. The article described in claim 19 wherein ETM is an early transition metal selected from the group of Ti, Zr, and Ta; TM is a transition metal selected from the group of Fe, Co and Cu; and AM is an additive material selected from the group of B and Si.
 - 21. The article described in claim 18 wherein the amorphous alloy has a Δ Tsc of more than 40 °C.
- 20 22. The article described in claim 18 wherein the liquidus temperature of the amorphous alloy is 1160 °C or less.
 - 23. The article described in claim 18 wherein the amorphous alloy has a Vickers hardness greater than 940 Kg/mm².

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- 24. The article described in claim 18 wherein the amorphous alloy has a yield strength of greater than 2 GPa.
- 25. The article described in claim 18 wherein the amorphous alloy has a yield strength of about 3 GPa or more.
 - 26. The article described in claim 18 wherein the amorphous alloy has a Young's modulus greater than 160 GPa.

27. The article described in claim 18 wherein the amorphous alloy has a ratio of glass transition temperature to liquidus temperature of around 0.6 or more.

- 28. The article described in claim 18 wherein the alloy contains a ductile crystalline phase precipitate.
 - 29. The article described in claim 18 wherein the article is three dimensional having a size of least 0.5 mm in each dimension.
- 10 30. The article described in claim 18 wherein the article is three dimensional having a size of least 1.0 mm in each dimension.